UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

OTTER QUADRANGLE
MONTANA—POWDER RIVER CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

(POKER JIM BUTTE) 4774 I SE

4774 I SE (GOODSPEED BUTTE)

106°15′ 12′30″ 4774 I SW (FORT HOWES) 10′ R 45 E R 46 E 106°07′30″ 45°15′

35°15′

12′30″

4774 III NE HAMILTON DRAW)

(REANUS CONE) 4774 II NE

T. 7 S.
T. 8 S.

10′

15°07′30″ 106°15′ 12′30″ (BEAR CREEK SCHOOL) 4774 II SW 10′ R. 45 E. R. 46 E. 45°07′30″ 106°07′30″

(QUIETUS) 4774 III SE (SAYLE HALL) 4774 II SE

Base from U.S. Geological Survey, 1972

Compiled in 1977

SCALE 1:24 000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 .5 0 1 KILOMETRE

GN MN
0°50′ 15 MILS
15° 267 MILS

UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

MONTANA
QUADRANGLE LOCATION

COAL RESOURCE OCCURRENCE AND COAL DEVELOPMENT POTENTIAL MAPS OF THE OTTER QUADRANGLE, POWDER RIVER COUNTY, MONTANA

BY

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1979

OPEN-FILE REPORT
This report has not been edited for conformity with U.S. Geological Survey editorial standards or stratigraphic nomenclature

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PLATE 6 OF 59

EXPLANATION

200 — OVERBURDEN ISOPACHS--Showing thickness of overburden, in feet, from the surface to the top of the coal bed. Isopach interval 200 feet (61 m).

3 — MINING RATIO CONTOUR--Number indicates cubic yards of overburden per ton of recoverable coal by surface mining methods. Contours shown only in areas within the stripping limit.

SL — STRIPPING LIMIT LINE--Boundary for surface mining of the coal bed (in this quadrangle, the 200-foot overburden isopach). Arrows point toward the area suitable for surface mining.

B — BOUNDARY OF RESERVE BASE COAL--Drawn along the contact between burned and unburned coal and the fault boundary of coal. Arrows point toward area of Reserve Base coal.

FAULT--Bar and ball on downthrown side.

268 — DRILL HOLE--Showing thickness of overburden, in feet, from the surface to the top of the coal bed.

To convert cubic yards of overburden per short ton of recoverable coal to cubic meters of overburden per metric ton of recoverable coal, multiply by 0.84.

To convert feet to meters, multiply feet by 0.3.

PLATE 6
OVERBURDEN ISOPACH AND MINING RATIO MAP OF THE ANDERSON COAL BED